

GADIYEVA, T. M., Cand Geol-Min Sci -- "Lithology of the
Apsheron deposits ^{of} the Apsheron Peninsula." Baku, 1961.
(Com of Higher and Sec Spec Ed of the Council of Ministers
AzSSR. Azarbaydzhan State U im S. M. Kirov. Acad Sci AzSSR.
Inst of Geol im Acad I. M. Gubkin) (KL, 8-61, 233)

- 103 -

SULTANOV, A.D.; GADIYEVA, T.M.

Mineralogical composition of black clays of the Apsheron
stage of the Apsheron Peninsula. Dokl. AN Azerb. SSR 18
no.2:53-58 '62. (MIRA 15:7)

1. Institut geologii AN AzSSR.
(Apsheron Peninsula--Clay)

GADIYEVA, T.M.; MAGERRAMOVA, F.S.

Bitumen potential of sediments in the Apsheron stage of the
Apsheron Peninsula. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk
i nefti no.6:37-43 '62. (MIRA 16:4)

(Apsheron Peninsula--Bitumen--Geology)

AKAYEVA, V.P.; GADIYEVA, T.M.

Mineralogical composition of Apsheron sediments in the Caspian-Kuba area and Apsheron Peninsula. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk i nefti no.6:61-69 '62. (MIRA 16:4)

(Azerbaijan—Mineralogy)

SULTANOV, A.D.; ALIYEV, A.G.; AKAYEVA, V.P.; GADIYEVA, T.M.;
TEODOROVICH, G.I., red.; DOLGOV, V., red.izd-va; IBRAGIMOV, M.,
tekhn. red.

[Lithology of sediments in the Apsheronian stage of Azerbaijan]
Litologiya otlozhenii apsheronskogo iarusu Azerbaidzhana. Baku,
Izd-vo AN Azerb.SSR, 1963. 249 p. (MIRA 16:12)
(Azerbaijan—Rocks, Sedimentary)
(Geology, Stratigraphic)

GADJANSKI, Branislav; BRNDUSIC, Zivojin; DRAGIC, Olga; LAZAREVIC, Dejan

Chaoul's contract radiotherapy. Srpski arh. celok. lek. 83 no.
3:367-376 March 55.

1. Radioloski Institut Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr. Stojan Dedic.

(RADIOTHERAPY,

cancer of skin, Chaoul's contact method, results (Ser))
(SKIN, neoplasms
radiother., Chaoul's contact method, results (Ser))

GADJANSKI, Branislav

The treatment of metastatic bone neoplasms with radiotherapy and hormones. Srpski arh. celok. lek. 83 no.5-6:655-660 May-June 55.

1. Radioloski Institut Medicinskog fakulteta u Beogradu.
Upravnik: Stojan Dedic.

(BONES, neoplasms

metastatic from breast, ther., hormones & radiother. (Ser))

(RADIOTHERAPY, in various dis.

metastatic bone neoplasms from breast, with hormones (Ser))

(HORMONES, ther. use

metastatic bone neoplasm from breast, with radiother. (Ser))

GALJANSKI, Branislav

Malignant tumors. Srpski arh. celok. lek. 84 no.5:651-655
May 56.

1. Radiolos, i institut Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr. Bogoljub Bosnjakovic.
(NEOPLASMS,
clin. aspects (Ser))

GADJANSKI, Branislav; JANKOVIC, Ivan; BRZAKOVIC, Predrag

Treatment of mycosis fungoides with radiotherapy. Srpski arh. celok.
lek. 85 no.6:655-663 June 57.

1. Radioloski institut Medicinskog fakulteta u Beogradu. Upravnik:
prof. dr. Bogoljub Bosnjakov.

(MYCOSIS FUNGOIDES, ther.

radiother. (Ser))

(RADIOTHERAPY, in var. dis.

mycosis fungoides (Ser))

GADJANSKI, Branislav; JANKOVIC, Ivan; BRZAKOVIC, Predrag; BEKERUS, Milos

Therapy of hemangiomas by means of Chaoul's contact therapy.
Srpski arh. celok. lek. 87 no.11:1001-1007 N '59.

1. Radioloski institut Medicinskog Fakulteta u Beogradu, Upravnik:
prof. dr Bogoljub Bosnjakovic.
(HEMANGIOMA radiother.)

GADJIEV, B.L.

Influence of the vintage periods on the productivity, quality and transportability of Agadi table grapes in the Dagestan Autonomous Soviet Republic. Analele agric zooteh 17 no.6:59-65 K-D'63.

GADKOWA, W. .

Polish cardiological literature published from Dec. 1, 1962
to Feb. 28, 1963. Kardiol. pol. 6 no.2:141-146 '63.

(CARDIOLOGY) (BIBLIOGRAPHY)

GADKOWA, Wiesława

Polish cardiological literature. June 1, 1963 - September 30,
1963. Kardiolog. 6 no.4:295-300 '63.

*

GADKOWA, Wieslawa

Polish cardiological literature. 12-1-1963 -- 2-29-1964.
Kardiol. Pol. 7 no.2:157-162 '64.

GADLIN, Yu. I.

USSR/Zooparasitology. Ticks and Insects as Disease Vectors.
Mites.

G

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77027.

Author : Gadlin, Yu. I.; Geshkovich, N. L.; Gorchakovskaya,
N.N.; Levit, A.D.

Inst :

Title : On the Problem of the Destruction in Nature of the
Carrier of Tick Encephalitis of the Tick Ixodes per-
sulcatus Sch.

Orig Pub: Byul. Mosk. o-va ispyt. prirody. Otd. biol., 1957, 62,
No 2, 43-49.

Abstract: Results of investigations during 1952-1955 in the
deciduous forests of the Kuybyshevskaya oblast are
presented. The duration was studied of the effect
of a single anti-tick treatment of the forest floor

Card : 1/3

KIYASHKO, I.A., kand.tekhn.nauk; ZIL'BERMAN, A.I., kand.tekhn.nauk;
GADLIYA, A.I., inzh.

Powered supports for longwalls in steep seams. Ugol' Ukr. 7
no.11:35-36 N '63. (MIRA 17:4)

1. Dnepropetrovskiy gornyy institut.

ZIL'BERMAN, A.I.; KIVASHKO, I.A.; GADLIYA, A.I.

Results of stand testing the PKD-DGI ("Dnepr") support. Izv.
DGI 42:167-174 '64. (MIRA 18:11)

SOLCWEICH, R. E., GADNIN, L. S.

Evaporation

Theory of evaporation from organic bodies of water. Dokl. AN SSSR 86, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

GADO, Gyorgy

"Malta, a developing economy" by Maurice Abela. Reviewed by
Gyorgy Gado. Stat szemle 42 no.10:1055-1057 0 '64.

GADO, Gyorgy, fceloado

Political views of Karoly Keleti. Stat szemle 43 no.3:288-307 Mr '65.

1. Central Statistical Office, Budapest.

NAGY, Dezső (Budapest); BALKO, Pal (Budapest); GADO, Istvan (Budapest);
KARAI, Kalman (Budapest).

Forum of innovators. Ujtit lap 16 no.12:30 25 Je '64.

HORVATH, I.; MAGYAR, K.; GADO, I.; SZANTO, J.; VADKERTY, T.

The influence of iron upon oxytetracycline production by *Streptomyces rimosus*. Acta microb. hung. 5 no.3:253-260 1958.

1. Research Institute of the Pharmaceutical Industry, Budapest.
(IRON, eff.

on oxytetracycline prod. by *Streptomyces rimosus*)
(OXYTETRACYCLINE, metab.

Streptomyces rimosus, eff. of iron on prod.)
(STREPTOMYCES, eff. of drugs on

iron on oxytetracycline prod. in *Streptomyces rimosus*)

GABO, I.; SEENTIEMAI, A.; HORVATH, I.

Production of oxtetracycline in synthetic medium. p. 317.

ACTA MICROBIOLOGICA. (Magyar Tudományos Akadémia) Budapest, Hungary, Vol. 5, no. 4, 1958. In English.

Monthly list of East European Accessions, (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

GADO, I.; SZENTIRMAI, A.; STECZEK, Katalin; HORVATH, I.

Metabolic studies with streptomyces rimosus. Acta microbiol. acad. sci. hung. 8 no.3:291-302 '61.

1. Research Institute of the Pharmaceutical Industry, Budapest.
(STREPTOMYCES metab) (OXYTETRACYCLINE metab)

GADO, I.; HORVATH, I.

Oxytetracycline production in different amino acid containing media.
Acta microb. 9 no.1:1-9 '62.

1. Department of Microbiology (Head: I. Horvath), Research Institute
for the Pharmaceutical Industry, Budapest.
(OXYTETRACYCLINE metabolism) (AMINO ACIDS pharmacology)

HORVATH, I.; GADO, I.; SZENTIRMAI, A.

Valine and isoleucine metabolism of *Streptomyces rimosus*. Acta microb.
9 no.1:11-22. '62.

1. Department of Microbiology (Head: I. Horvath), Research Institute
or the Pharmaceutical Industry, Budapest.
(VALINE metabolism) (LEUCINE metabolism) (STREPTOMYCES metabolism)

GADO, I.; HORVATH, I.

The effect of methanol on the growth of streptomycin-dependent strains of *Escherichia coli* in streptomycin-free media. Acta microbiol. acad. sci. Hung. 10 no.4:371-378 '63-'64

1. Department of Microbiology (Head: I. Horvath), Research Institute of the Pharmaceutical Industry, Budapest.

GADO, I.; HORVATH, I.

Amino acid sensitivity of strains derived from *Escherichia coli*
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1. Department of Microbiology (Head: I. Horvath), Research Institute
for Pharmaceutical Chemistry, Budapest.

HORVATH, I.; GADO, I.

Possible causes of leucine inhibition in *Escherichia coli* K12
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1. Department of Microbiology (Head: I. Horvath), Research
Institute for Pharmaceutical Chemistry, Budapest.

HUNGARY

GADO, Istvan. SAVTCHENKO, Galina, HORVATH, Istvan; Research Institute for Pharmaceutical Chemistry, Department of Microbiology (head: HORVATH, I.) (Gyogyszeripari Kutato Intezet, Mikrobiologiai Osztaly), Budapest.

"Agar-Diffusion Method for the Screening of Anticancer Substances by Phage Induction."

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol XII, No 4, 1965/66, pages 363-365.

Abstract: [English article, authors' English summary modified] A simple, semi-quantitative agar diffusion method was worked out for the screening of anticancer substances by phage induction which is suitable for mass examinations. The method is based on the following. A solid medium is infected with an appropriate mixture of the lysogenic and indicator strains; under the influence of active compounds, the number of plaques is significantly increased in the surroundings of the wells made in the agar plate. 1 Hungarian, 5 Western references. [Manuscript received 23 Aug 65.]

1/1

GADO, Kalman

Ukrainian sugar industry. Cukor 11 no.4:108

Ap'58

Gado, K.

Country : HUNGARY H-26
 Category : Chemical Technology. Carbohydrates. and Their Processing
 Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 51305
 Author : Gado, K.
 Institute : -
 Title : The World's Sugar

 Orig Pub. : Cukoripar, 1958, 11, No 9, 231-232
 Abstract : A review of manufacture and consumption of sugar in the highly industrialized countries and in countries that are being industrialized.
 -- G. Yudkovich

Card: 1/1

Country : GDR H-26
 Category : Chemical Technology. Carbohydrates and Their

GADO, K.

Briquetting dehydrated sugar-beet slices. Pt. 2. p.189

CIRCAIPAR. (Mezőgazdasági és Élelmiszeripari Tudományos Egyesület. Cukoripari Szakosztály) Budapest, Hungary
Vol. 12, no.7, July 1959

Monthly List of East European Accessions (EEAI) I.C., Vol.8, no.12, Dec. 1959
Uncl.

GADO, Kalman

Briquetting dried beet slices. Cukor 12 no.6:159-161
Je '59.

GADO, Kalman

Briquetting dried beet slices. II. Cukor 12 no.7:180-182
J1 '59.

GADO, Kalman

Situation of the world's sugar market after the 1958/59
campaign. Cukor 12 no.10:286 0 '59.

HINDRODI, Janos; GADO, Kalman

Storage situation of the sugar industry. Cukor 13 no.6:174-181
Je '60.

GADO, Kalman; HANUAT, Sandor; KISS, Gyula

Beet loading by means of nets. Cukor 14 no.5:138-142 My '61.

GADO, Kalman

The 1960/61 sugar balance of the world. Cukor 14 no.9:267 S '61.

GADO, Kalman; SOMORJAI, Kalman

Foreign language terminology. Cukor 18 no.1:15-22 Ja '65.

GADO, P.
The preparation of small spheres from single crystals.
E. Sándor and P. Gado (Phys. Inst., Budapest Univ.).
Kristallografiya I, 729-732 (1959).—A small grinder in which
a crystal is blown around the inner abrasive surface of a
cylinder by a tangential blast of air is described. Sphere
diam. decreased linearly with time. A. L. Mackay

Mack
Ew

2

4

GALLO, Pal

Application of the X-ray diffraction meter. Musz elet 15 no.22:12
0 °60. (EEAI 10:3)
(X rays)

GADO, P.

Distr: $4E20(m)$

✓ Mechanism of the reaction of tungsten trioxide with carbon. A. J. Hegedus and P. Gado (Nachrichtentech. Ind. Ver. Glühlampen- u. Elektrizitäts Akt.-Ges.) Tungstam, Budapest, Hung.). *Z. anorg. u. allgem. Chem.* 305, 227-35 (1960); cf. *CA* 50, 3938g. The redn. of WO_3 by C in inert atm. is followed by chem., thermogravimetric, and differential thermal analysis and by x-ray diffraction. The redn. to α -W proceeds directly and also via a series of intermediate oxides; the direct reaction is more important at higher temps. The intermediate oxides are formed by solid state reactions between unreacted WO_3 diffusing outward from the interior and W diffusing toward the interior of the crystal. The over-all rate is detd. by $WO_3 = W + 1.5O_2$. Formation of W carbides begins only after O is eliminated. Elec.-cond. measurements show that redn. of WO_3 by dry H is induced by chemisorption of H; W is then formed, followed by diffusion reactions which give the intermediate oxides.

Richard H. Jaeger

67K

4.
1-112(10)

GADO, Pal

Modern X-ray apparatuses for testing fine structures. Musz elet 15
no.26:11 D '60. (EEAI 10:3)
(X rays) (Metallography)

GADO, Pal

Roentgen spectroscopy. Mass elet 16 no.4:11 '61.
(X-ray spectroscopy)

(EEAI 10:7)

VAJDA, Dezső, dr.; GADO, Pál.

Telecommunication methods in X-ray diagnosis. *Musz elet* 16 no.13:12
Je '61. (KEAI 10:9/10)

(X rays) (Telecommunication)

GADO, Pal

Instruments of the X-ray spectroscopy. Musz et al 16 no.21:12 '61.

GADO, Pal

Routine quantitative analysis by means of roentgen diffractometer. Magyar korn folyoir 67 no.2:189-193 My '61.

1. Hirasastechnikai Ipari Kutato Intezet, Brody Imre Laboratorium, Budapest.

S/070/62/007/004/014/016
E132/E435

217000
AUTHOR: Gado, P.

TITLE: A new X-ray camera for orienting single crystals
before cutting

PERIODICAL: Kristallografiya, v.7, no.4, 1962, 641-642

TEXT: The camera is essentially a conventional Laue camera with an axis, about which the goniometer head can be rotated, set parallel to the X-ray beam. A fluorescent screen is fixed roughly parallel to the beam and on this can be placed prepared charts (suitable for the substance being handled) so that the crystal can be turned until certain Laue reflexions lie in the correct positions. There are 3 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut promyshlennosti tekhniki svyazi Budapesht (Scientific Research Institute for the Communications Industry, Budapest)

SUBMITTED: September 22, 1961

Card 1/1

GADO, Pal

Data on the crystal structure of the stable, rhombic modification of WO_3 between 330-740 C°. Magy fiz folyoir 10 no.5:347-349 '62.

1. Híradastechnikai Ipari Kutató Intézet, Brody Imre Laboratorium,
Budapest.

GADO, Pal

Gas flushing, high-temperature part to X-ray diffractometer. *Magy*
fiz folyoir 10 no.5:387-391 '62.

1. Híradastechnikai Ipari Kutató Intézet, Brody laboratorium,
Budapest.

GADO, Pal

The 50-year-old Laue experiment. Fiz szemle 13 no.2:58-60 F '63.

1. Híradastechnikai Ipari Kutató Intézet Brody Imre Laboratorium.

1964, Vol. 4, p. 1.

Orientation measurement of tetragonal tin (S-Sn) monocrystals by means of X-ray diffraction. Meres automat 12 no. 2: 47-50 1964.

GADO, Pal, dr.

Sixth Congress of the International Union of Crystallography,
Rome. Hir techn 15 no. 1: 28 Ja '64.

GADO, Pal, dr.

Electron ray roentgen microanalyzer. Musz elet 19 no.18:14
27 Ag '64

GADO, P.

X-ray powder diffraction study of the $WO_3 \rightarrow W_{20}O_{58}$ shear transformation. Acta phys Hung 18 no.2:111-117 '65.

1. Department of Testing Basic Materials of the Institute of Telecommunication Technique, Budapest. Submitted July 16, 1964.

1 44635-66 T/AM (11/65) HIKI (11/65) HIKI

ACC NR: AP603119

SOURCE CODE: HU/0012/65/013/010/0293/0299

AUTHOR: Gado, Pal

ORG: Department for Basic Material Evaluation, HIKI (HIKI Alapanyag-Vizsgalo Osztaly)

TITLE: Exact measurement of the lattice parameters of polycrystalline substances with the aid of the x-ray diffractometer [This paper was presented at the Annual Conference on Electrooptics and X-Ray Diffraction on 22 January 1964.]

SOURCE: Mérés es automatika, v. 13, no. 10, 1965, 293-299

TOPIC TAGS: x ray diffraction study, crystal lattice structure, polycrystal

ABSTRACT: The problems inherent in the precise determination of lattice parameters of polycrystalline materials by X-ray diffractometry were discussed on the basis of references in the literature. The corrections required to improve the accuracy of the measured results could be determined by employing the centroid method. The operations involved in this technique were described and illustrated. It was judged that the technique is cumbersome and that the development of appropriate equations for the characterization of the deviations would be desirable. Orig. art. has: 5 figures, 1 formula and 2 tables. [JPRS: 33,545]

SUB CODE: 20 / SUBM DATE: 15Jun65 / ORIG REF: 001 / SOV REF: 002
OTH REF: 024

Cord 1/1

UDC: 537.531:535.853.67:681.2:548.73

0920

06/3

L 07013-67 EWP(t)/BTI IJP(c) JD/JG

ACC NR: AT7001014

SOURCE CODE: HU/2502/65/046/002/0165/0169

GADO, Pal, Dr., and LASZLO, Imre, of the Industrial Research Institute for
Telecommunication Technology, Department of Materials Testing; and Research
Institute for Technical Physics at the Hungarian Academy of Sciences [ori-
ginal-language versions not given], both in Budapest.

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BH

"WO_{2.95}, a New Phase with Shear Structure in the W-O System"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 46, No 2,
5 Dec 1965, pp 165-169.

27

Abstract: [English article; authors' English summary, modified] The tungsten
oxide WO_{2.95} was prepared by the thermal decomposition of the trioxide WO₃.
On the basis of X-ray data, a shear structure and the formula of W₄₀O₁₁₈ was
proposed for the product, a newly identified member in the homologous
W_nO_{3n-2} series. The authors thank Doctor A. Hegedus, Industrial Research Institute for
Telecommunication Technology, Budapest, and Professor A. Magneli, University of Stockholm,
for valuable discussions. Orig. art. has: 2 tables. [JPRS: 33,908]

TOPIC TAGS: tungsten oxide, thermal decomposition

SUB CODE: 07 / SUBM DATE: 27Apr65 / ORIG REF: 001 / OTH REF: 006

Card 1/1 *egh*

09246012

GADOL, N. A. V.; ANSHELES, O. M., redaktor; SHAFRANOVSKIY, I. I., redaktor;
FRANK-KAMENETSKIY, V. A., redaktor; SAZONOV, L. S., redaktor; PETROV-
SKIY, I. G., akademik, redaktor; ANDREYEV, N. N., akademik, redaktor;
BYKOV, K. M., akademik, redaktor; KAZANSKIY, B. A., akademik, redaktor;
OPARIN, A. I., akademik, redaktor; SHMIDT, O. Yu., akademik redaktor;
SHCHERBAKOV, D. I., akademik, redaktor; YUDIN, P. F., akademik,
redaktor; KOSHTOYANTS, Kh. S., redaktor; MAKSIMOV, A. A., redaktor;
SAMARIN, A. M., redaktor; LEBEDEV, D. M., doktor geograficheskikh nauk,
redaktor; FIGUROVSKIY, N. A., doktor khimicheskikh nauk, redaktor;
KUZNETSOV, I. V., kandidat filosofskikh nauk, redaktor; OZNOBISHIN,
D. V., kandidat istoricheskikh nauk, redaktor; SMIRNOVA, A. V.,
tekhnicheskiy redaktor

[Development of all crystallographic systems and their subdivisions
from a common origin] Vyvod vseh kristallograficheskikh sistem i ikh
podrazdelenii iz odnogo obshchego nachala. Redaktsiya i primechania
O. M. Anshelesa, I. I. Shafranovskogo, V. A. Frank-Kamenetskogo. [Leningrad]
Izd-vo Akademii nauk SSSR, 1954. 155 p. (MLRA 7:10)

1. Chlen-korrespondent AN SSSR (for Koshtoyants, Maksimov, Samarin)
(Crystallography)

GADOLIN, V. I.

"Investigation of the Distribution of Specific Pressure of Automobile Brake Shoes."
Thesis for degree of Cand Technical Sci. Sub 26 Jun 50, Moscow Order of Labor Red
Banner Higher Technical School imeni N. E. Bauman

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in
Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

BELIAYEV, V.N., dots., kand. tekhn. nauk; BOGATYREV, I.S., dots.,
kand. tekhn. nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V.,
st. prepod.; GADOLIN, V.L., dots., kand. tekhn. nauk;
GOFMAN, E.I., st. prepod.; DROZDOV, N.A., dots., kand.
tekhn. nauk; ZAYTSEVA, L.I., inzh.; IVANOV, V.N., dots.,
kand. tekhn. nauk; KOROVIN, B.I., dots., kand. tekhn. nauk;
LUKIN, V.I., dots., kand. tekhn. nauk; MORIN, I.S., dots.,
kand. tekhn. nauk; OGRINCHUK, I.A., inzh.; PALOCHKINA, N.V.,
inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P., kand. tekhn. nauk;
RASPOPOV, A.G., st. prepod.; RESHETOV, D.N., prof., doktor
tekhn. nauk; STOLBIN, G.B., dots., kand. tekhn. nauk, retsenzent;
KASPEROVICH, N.S., inzh., red.; SMIRNOVA, G.V., tekhn. red.;
UVAROVA, A.F., tekhn. red.

[Machine parts; atlas of designs] Detali mashin; atlas kon-
struksii. Moskva, Mashgiz, 1962. 346 p. (MIRA 15:3)

1. Kafedra "Detali mashin" Moskovskogo vysshogo tekhnicheskogo
uchilishcha im. Baumana (for all except Stolbin, Kasperovich,
Smirnova, Uvarova).

(Machinery—Design)

E 40805-66 EWT(J)/EWT(1)/EEG(K)-2/FCC

GN

ACC NR: AP6028357

SOURCE CODE: UR/0203/66/006/004/0762/0766

AUTHOR: Gadalov, A. N.; Rapoport, I. D.; Mineyev, Yu. V.

ORG: Moscow State University. Nuclear Physics Institute (Moskovskiy gosudarstvennyy universitet. Institut yadernoy fiziki)

TITLE: Telemetering of pulses from a scintillating cosmic ray detector over a wide dynamic range

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 4, 1966, 762-766

TOPIC TAGS: cosmic ray measurement, scintillation detector

ABSTRACT: A relatively simple system for measuring amplitude of pulses from a scintillation cosmic ray detector in the dynamic range of $\sim 2 \cdot 10^4$ is described. This range is attained by means of an analog-to-numeric conversion directly at the output of a photomultiplier. Figure 1 illustrates the basic concept of the system. An oscillatory circuit, tuned to $f \sim 1$ Mc (so that $1/f \gg \tau_l$ where τ_l is the luminescence time), is coupled to the anode circuit of the photomultiplier which registers scintillations ($\tau_l \sim 10^{-9}$ sec). A photomultiplier current pulse charges the capacitor of the tank circuit and produces a packet of damped oscillations with an initial amplitude (U_0) proportional to the current pulse. The oscillations are damped and then

Card 1/3

UDC: 523.165

L 40205-56

ACC NR: AP6028357

Photomultiplier

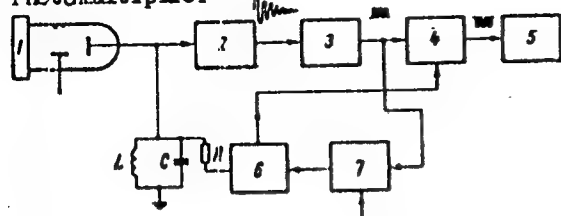


Fig. 1. Detector block diagram

1 - Scintillator; 2 - amplifier;
3 - discriminator; 4 - anticoin-
cidence circuit (1); 5 - counter;
6 - damping circuit; 7 - anti-
coincidence circuit (2).

passed on to an amplitude dis-
criminator (threshold, U_t) which
forms a packet of standard pulses
whose number $N = k$ in (U_0/U_t) . In
the presence of an external con-
trol signal and through an anti-
coincidence circuit (1), these
pulses are sent to an output
counter whose readings are in turn
transmitted to a registration
channel. In the absence of the
control signal, the circuit
oscillations are damped by the
first pulse that arrives from the
discriminator through another anti-
coincidence circuit (2). In this
case, the packet of pulses is not
damped. Thus, a selection is made of registered pulses. The minimum
value of the registered scintillation pulses is determined by the input
circuit noise. The circuit sensitivity (U_t), which is made to exceed
several times the noise level, is $\sim 300 \mu\text{v}$. The maximum value of
registered scintillation pulses of $\sim 7 \text{ v}$ is limited by the permissible

Card 2/3

ACC NR: AP6028357

amplitude at the input of the transistorized circuits. The power
supply required for the entire system does not exceed 100 Mw. Orig.
art. has: 3 figures. [JR]

SUB CODE: 04, 18 SUBM DATE: 30Jun65/ ORIG REF: 002/ OTH REF: 001,
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Card 3/3 MLP

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